

Comparison of MetAP2 Homologues (mouse = SEQ ID NO:13; rat = SEQ ID NO:17;
 human = SEQ ID NO:12; yeast = SEQ ID NO:14)

| | | | | | | | | | | | | |
|-------|------------------|-----------------|-----------------|------------------|-----------------|------------------|-------|-------|-------|-------|-------|-----|
| | 1 | 15 | 16 | 30 | 31 | 45 | 46 | 60 | 61 | 75 | 76 | 90 |
| mouse | MAGVEQQASFGGHNL | GDLDPDDREEGTST | AEEAKKKRKKG | KGAVSAVQELDKES | GALVDEVAKOLESA | LEEKERDDDED&DG | | | | | | |
| rat | MAGVEEASSFGGHNL | RDLDDDRDREEGTST | AAAACKKRKKKG | KGAVSAGOELDKES | GTSVDEVAKOLEROA | LEEKERDDDED&DG | | | | | | |
| human | MAGVEEEVAASGSHLN | GDLDPDDREEGAAT | AAAACKKRKKKG | KGAVSAGOELDKES | GTSVDEVAKOLEROA | LEEKERDDDED&DG | | | | | | |
| yeast | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | |
| | 91 | 105 | 106 | 120 | 121 | 135 | 136 | 150 | 151 | 165 | 166 | 180 |
| mouse | DADGATGKKKKKKK | KRGPKVQTDPPSVPI | CDLYPNGVFPKGQEC | EYPTQDGRTIAWRT | TSEEKKALDQASEEI | WNDFREAAEAHRQVR | | | | | | |
| rat | DGGAAAGKKKKKKK | KRGPRVQTDPPSVPI | CDLYPNGVFPKGQEC | EYPTQDGRTIAWRT | TSEEKKALDQASEEI | WNDFREAAEAHRQVR | | | | | | |
| human | DGGATGKKKKKKK | KRGPKVQTDPPSVPI | CDLYPNGVFPKGQEC | EYPTQDGRTIAWRT | TSEEKKALDQASEEI | WNDFREAAEAHRQVR | | | | | | |
| yeast | ESKKKKKKKKKKK | N-----VKI | ELLFPDGKYPEGAWM | DYHQDFNQLQRTIDEE | SRYLKRDLERA--EH | WNDVRKGAEIHRVR | | | | | | |
| | 181 | 195 | 196 | 210 | 211 | 225 | 226 | 240 | 241 | 255 | 256 | 270 |
| mouse | KYVMSWIKGPMTMIE | ICEKLEDCSRKLIE | NGLNAG-----LA | FPTGCSLNNAHYT | PAGDTTVLQYDDIC | KIDFGTHISGRILDC | | | | | | |
| rat | KYVMSWIKGPMTMIE | ICEKLEDCSRKLIE | NGLNAG-----LA | FPTGCSLNNAHYT | PAGDTTVLQYDDIC | KIDFGTHISGRILDC | | | | | | |
| human | KYVMSWIKGPMTMIE | ICEKLEDCSRKLIE | NGLNAG-----LA | FPTGCSLNNAHYT | PAGDTTVLQYDDIC | KIDFGTHISGRILDC | | | | | | |
| yeast | RAIKDRIVPGMKLMD | IADMIDENTTRKYGA | ENLLAMEDPKSQGIG | FPTGLSLNHCAHFT | PAGDRTVLYEDVM | KVDYGVOVNNTIDS | | | | | | |
| | 271 | 285 | 286 | 300 | 301 | 315 | 316 | 330 | 331 | 345 | 346 | 360 |
| mouse | AFTVTFNPKYDILLT | AVKDATNTGIKCAGI | DVRLCDVGEAIQEVN | ESYEVEILDGKTYQVK | PIRNLNGHSIGPYRI | HAGKTVPIVKGEAT | | | | | | |
| rat | AFTVTFNPKYDILLK | AVKDATNTGIKCAGI | DVRLCDVGEAIQEVN | ESYEVEILDGKTYQVK | PIRNLNGHSIGPYRI | HAGKTVPIVKGEAT | | | | | | |
| human | AFTVTFNPKYDILLK | AVKDATNTGIKCAGI | DVRLCDVGEAIQEVN | ESYEVEILDGKTYQVK | PIRNLNGHSIGPYRI | HAGKTVPIVKGEAT | | | | | | |
| yeast | AFTVSFDPOQYDNLLA | AVKDATNTGIKCAGI | DVRLCDVGEAIQEVN | ESYEVEILDGKTYQVK | PIRNLNGHSIGPYRI | HAGKTVPIVKGEAT | | | | | | |
| | 361 | 375 | 376 | 390 | 391 | 405 | 406 | 420 | 421 | 435 | 436 | 450 |
| mouse | RMEEGEVEYAIETFGS | TGKGVWHDMECSHY | MKNFDVGHVPRLPR | TKHILINVINFGLT | AFCRRWLDRGESKY | LMAKLNLCDDLGIVDP | | | | | | |
| rat | RMEEGEVEYAIETFGS | TGKGVWHDMECSHY | MKNFDVGHVPRLPR | TKHILINVINFGLT | AFCRRWLDRGESKY | LMAKLNLCDDLGIVDP | | | | | | |
| human | RMEEGEVEYAIETFGS | TGKGVWHDMECSHY | MKNFDVGHVPRLPR | TKHILINVINFGLT | AFCRRWLDRGESKY | LMAKLNLCDDLGIVDP | | | | | | |
| yeast | KMEEGEHFAIETFGS | TGKGVWHDMECSHY | MKNFDVGHVPRLPR | TKHILINVINFGLT | AFCRRWLDRGESKY | LMAKLNLCDDLGIVDP | | | | | | |
| | 451 | 465 | 466 | 480 | | | | | | | | |
| mouse | YPLLCDIKGSYTAQF | EHTILLRPTCKEVVS | RGDDY-- | | | | | | | | | |
| rat | YPLLCDIKGSYTAQF | EHTILCAQPVKLSA | EEMTIKT | | | | | | | | | |
| human | YPLLCDIKGSYTAQF | EHTILLRPTCKEVVS | RGDDY-- | | | | | | | | | |
| yeast | YPLNDIPGSYTAQF | EHTILLHAKKEVVS | KGDDY-- | | | | | | | | | |

Title: Dominant Negative Variants fo Methionine Aminopeptidase
 Inventor(s): Chang et al.
 Appln. No. 09/943,123
 Docket # 66153/45004

Figure 1

Title: Dominant Negative Variants fo Mehtionine
Aminopeptidase
Inventor(s): Chang et al.
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Docket # 66153/45004

2 / 11

MetAP2

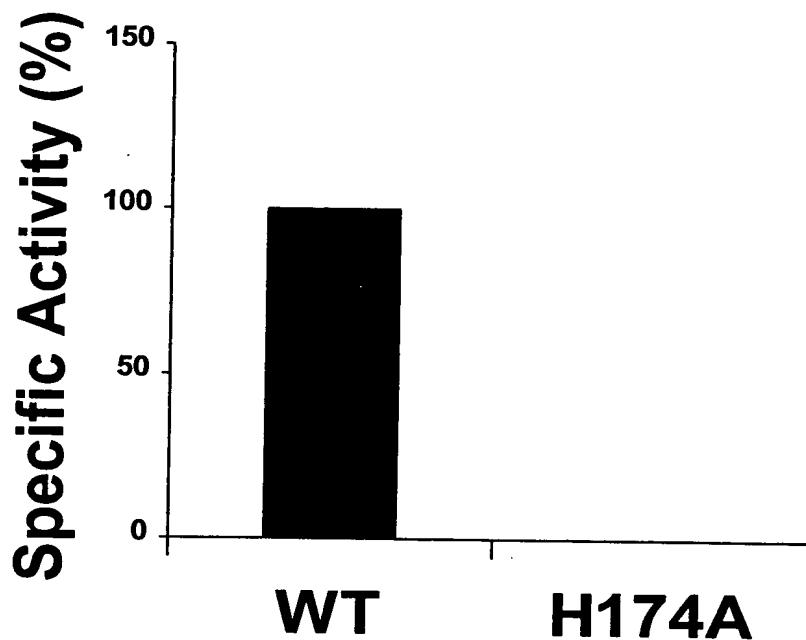
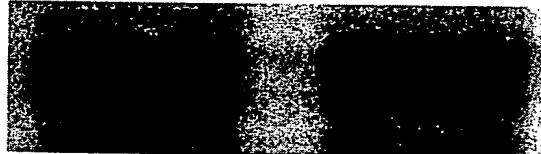
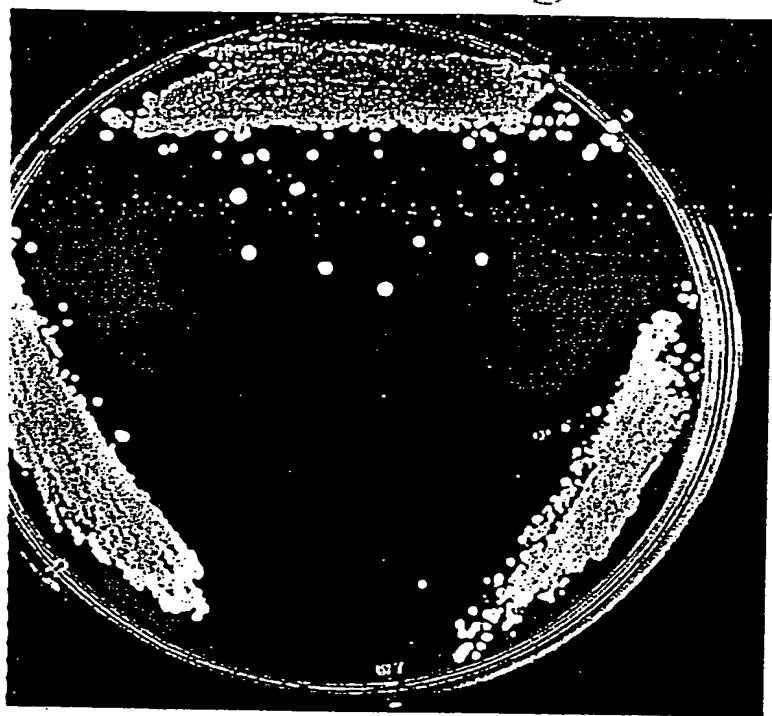
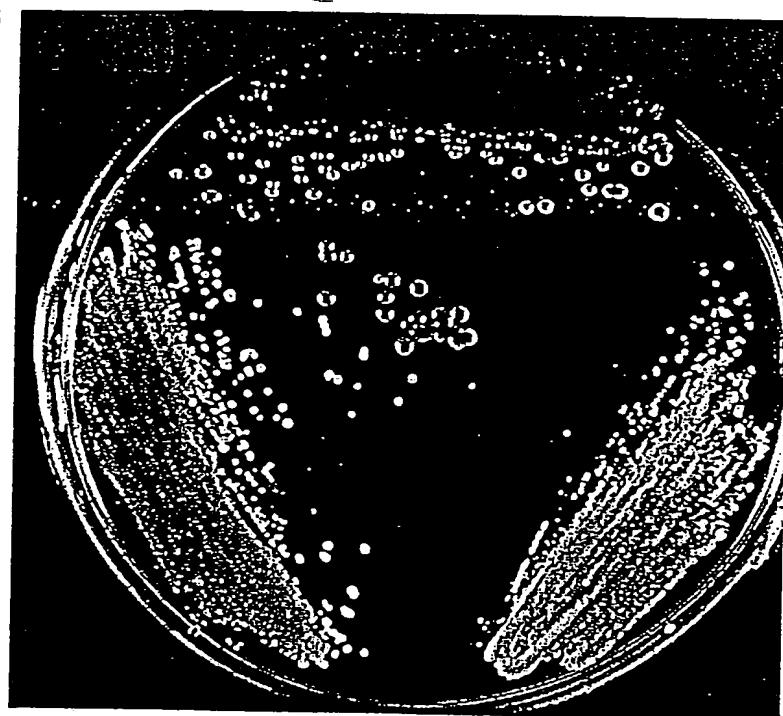


Figure 2



A. Glucose



B. Galactose.

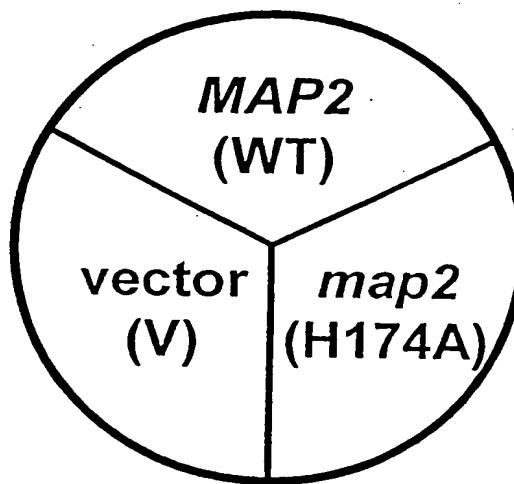


FIGURE 3

Title: Dominant Negative Variants fo Mehtionine
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3 / 11

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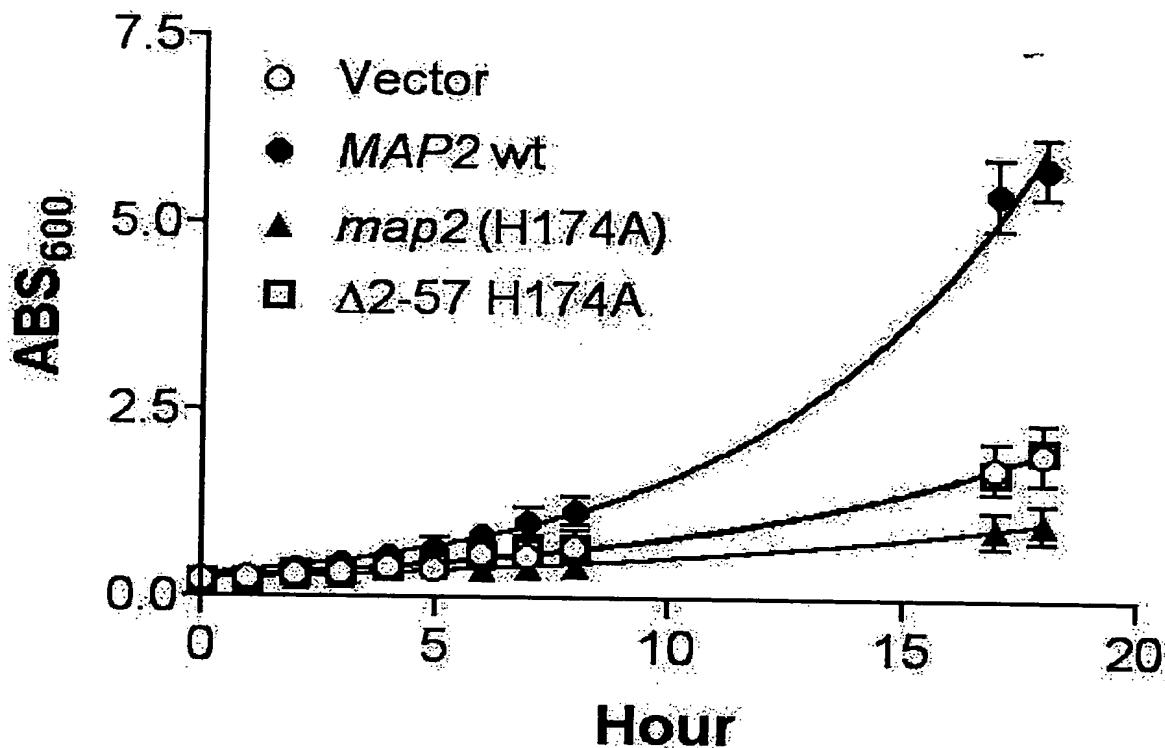
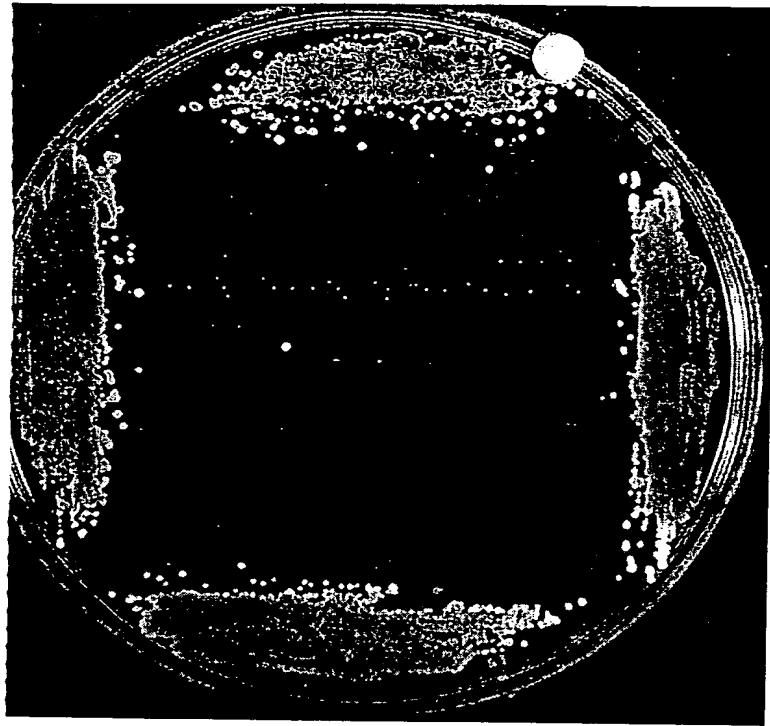
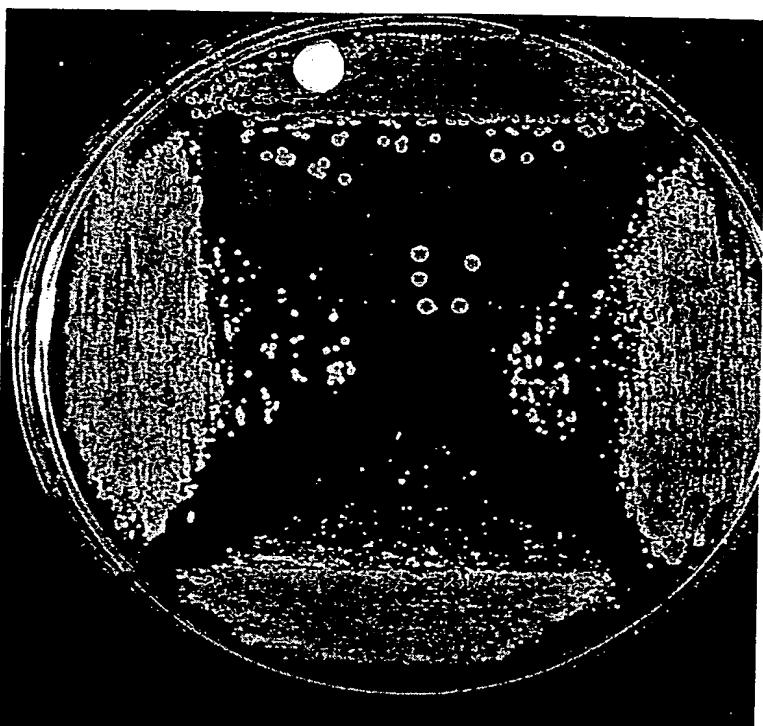


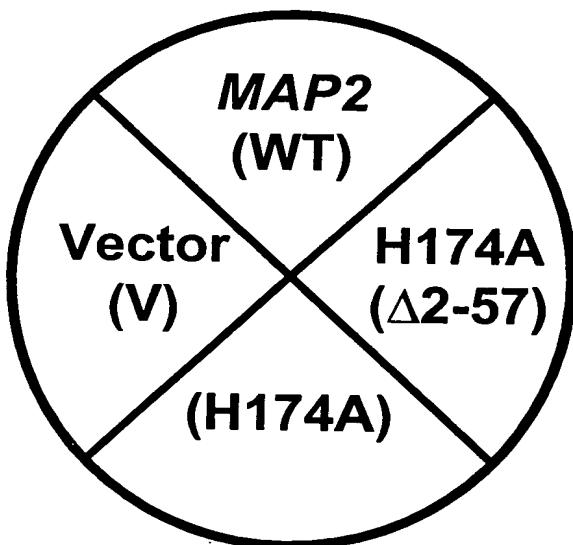
Figure 4



A. Glucose



B. Galactose



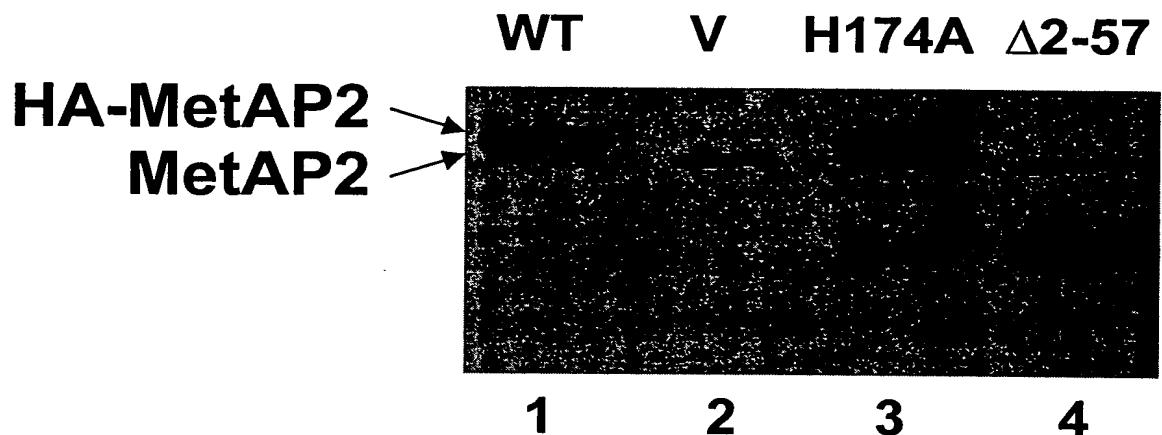
H174A-MetAP2 requires N-terminal residues 2-57 for inhibition of map1 Δ growth under the GAL1 promoter.

Figure 5

Title: Dominant Negative Variants to Methionine
Aminopeptidase
Inventor(s): Chang et al.
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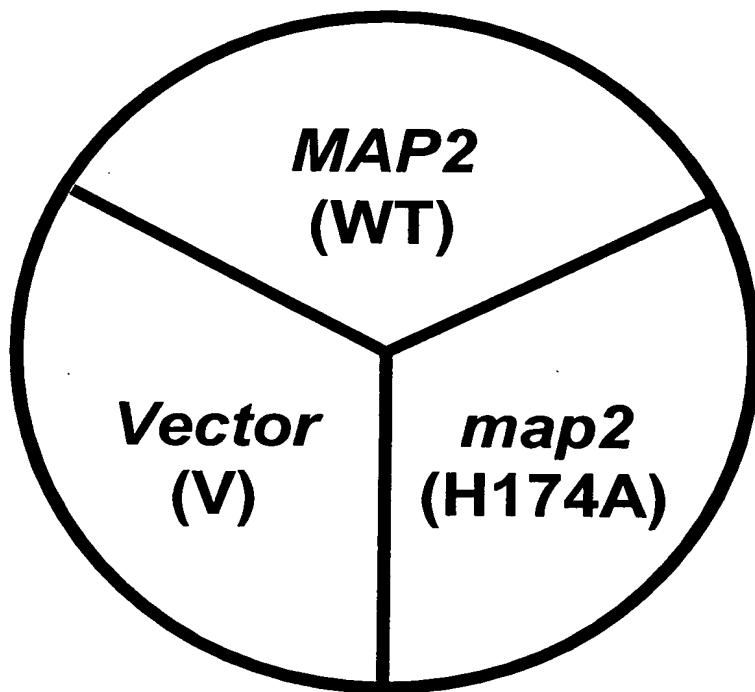
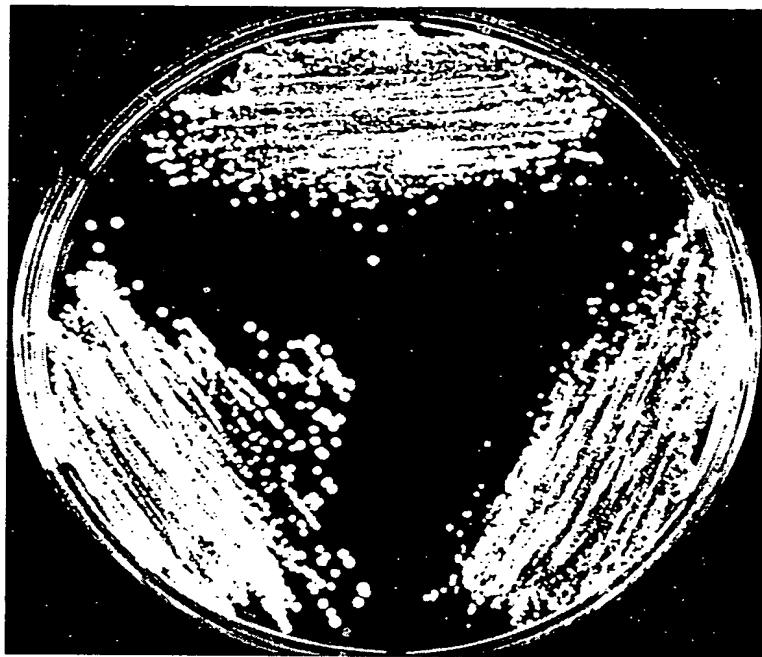
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6 / 11



The steady state levels of each MetAP2 construct are comparable. Immunoblot comparison of HA-MetAP2 wt, HA-MetAP2 H174A, and MetAP2 Δ2-57 H174A steady state levels in map1Δ.

Figure 6



Overexpression of H174A-MetAP2 under the GPD promoter does not inhibit the growth of map2Δ

Figure 7

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Title: Dominant Negative Variants fo Methionine

Aminopeptidase

Inventor(s): Chang et al.

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Docket # 66153/45004

8 / 11

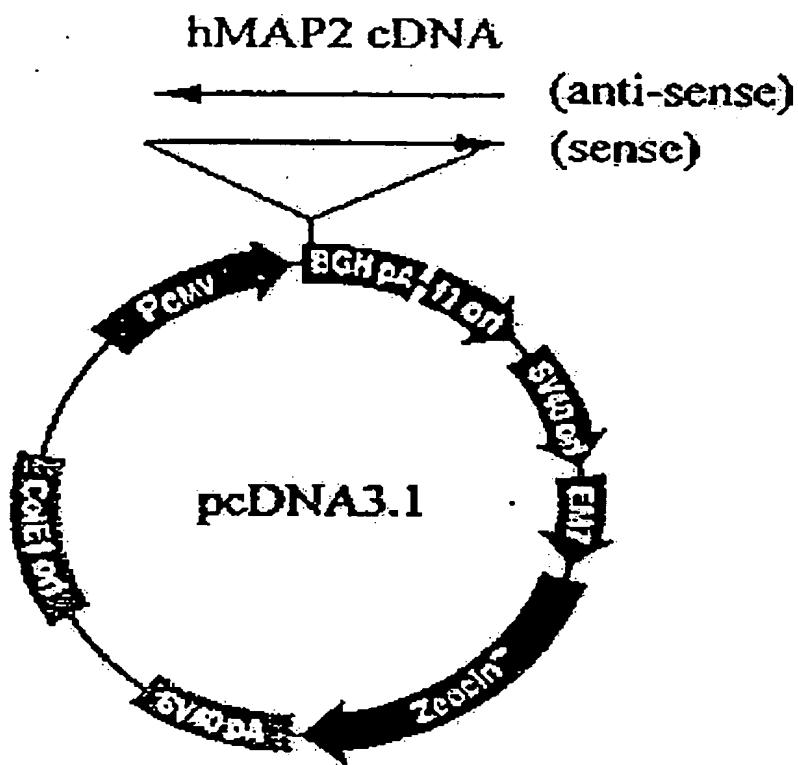
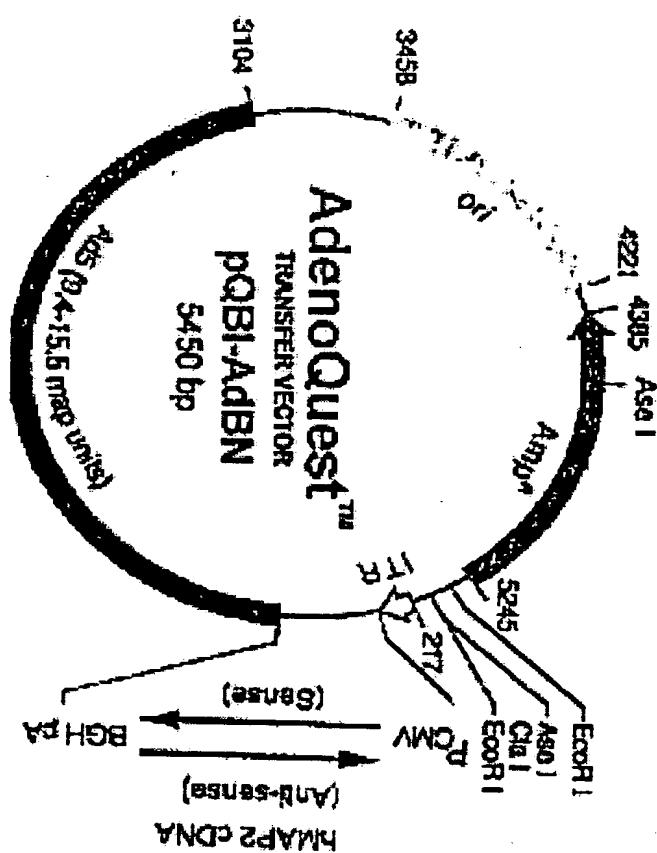


Figure 8

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9 / 11

Figure 9



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10 / 11

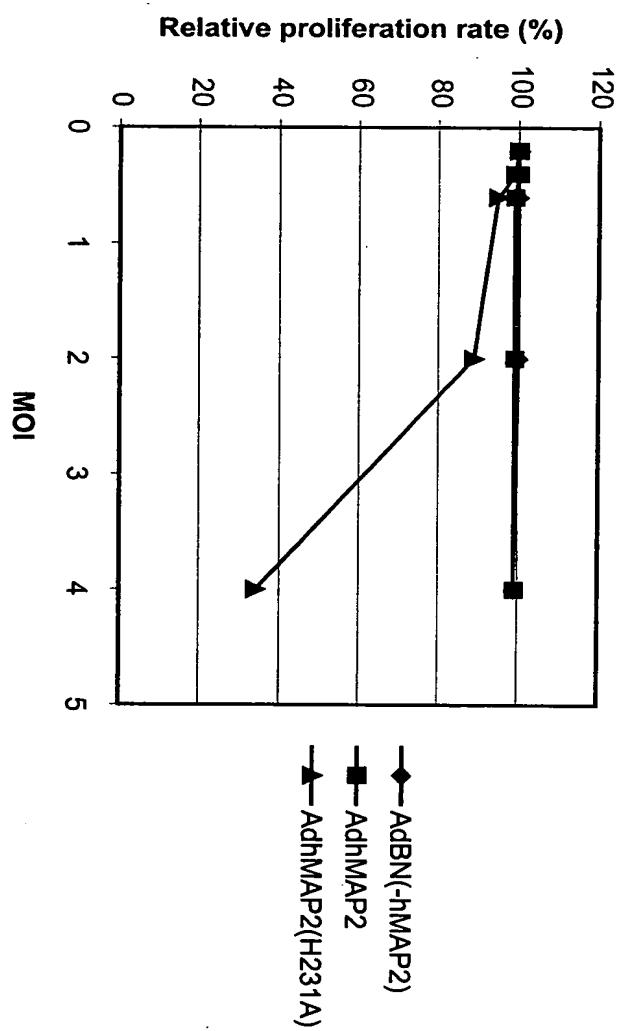


Figure 10

Title:

Dominant Negative Variants fo Mehtionine

Inventor(s):

Aminopeptidase

Chang et al.

Appn. No.:

09/943,123

Docket #

66153/45004

11 / 11

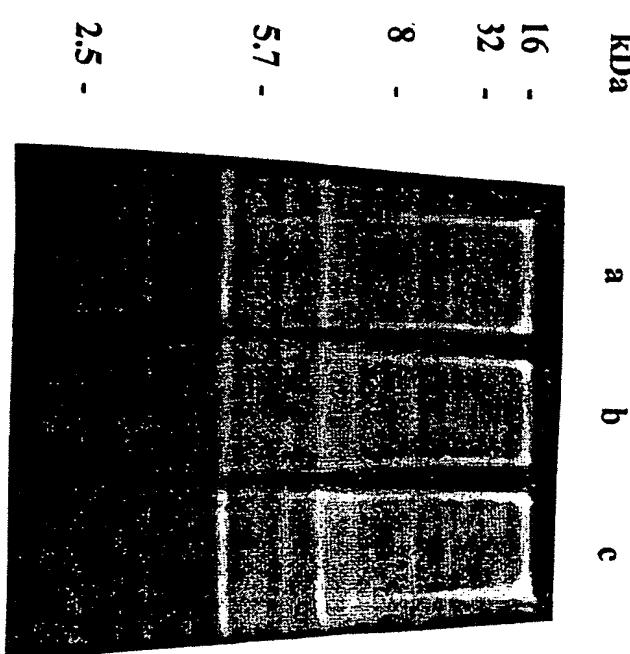
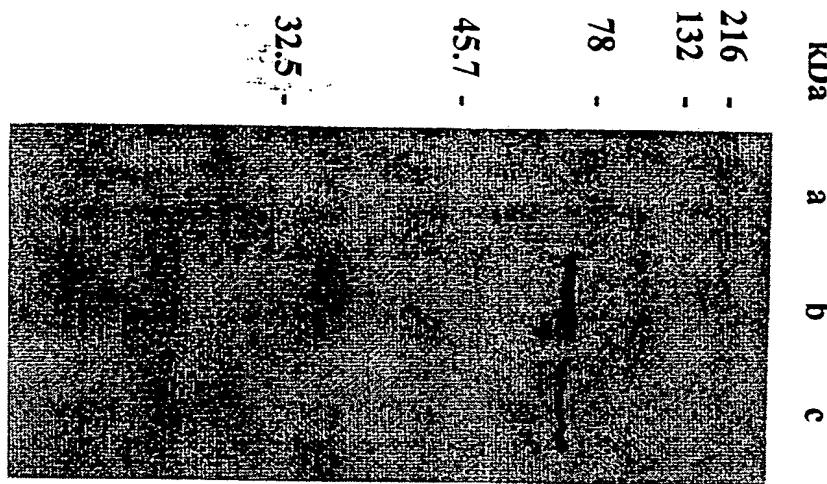


Figure 11

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